

# UNITED STATES PATENT AND TRADEMARK OFFICE -

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/494,067	01/28/2000	Rama Murty Kalluri	OPTVP009	3003
7590 12/29/2003  RORY D. RANKIN  MEYERTONS, HOOD, KIVLIN, KOWERT & GOETZEL, P.C.  P.O. BOX 398  AUSTIN,, TX 78767-0398			EXAMINER	
			SRIVASTAVA, VIVEK	
			ART UNIT	PAPER NUMBER
			2611	10
		•	DATE MAILED: 12/29/2003	, ,

Please find below and/or attached an Office communication concerning this application or proceeding.

-	Application No.	Applicant(s)			
-	09/494,067	KALLURI ET AL.			
Office Action Summary	Examiner	Art Unit			
	Vivek Srivastava	2611			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute  - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).  Status	36(a). In no event, however, may a reply be tin y within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
1) Responsive to communication(s) filed on	<u>_</u> .				
2a) This action is <b>FINAL</b> . 2b) ⊠ This	This action is <b>FINAL</b> . 2b) This action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4)⊠ Claim(s) <u>1-6, 8-19 and 21-36</u> is/are pending in the application.					
_	4a) Of the above claim(s) is/are withdrawn from consideration.				
5) Claim(s) 4-6,17-19 and 29-31 is/are allowed.					
6) Claim(s) <u>1-3,8-16,21-24,26-28 and 33-36</u> is/are rejected.					
7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.					
	r election requirement.				
Application Papers					
9) The specification is objected to by the Examiner.					
- , ,	0) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.				
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. §§ 119 and 120					
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> <li>13) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet.</li> <li>37 CFR 1.78.</li> <li>a) The translation of the foreign language provisional application has been received.</li> <li>14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.</li> </ul>					
Attachment(s)	<b>"□</b>	(DTO 440) B 11 (1)			
1) Motice of References Cited (PTO-892)  2) Motice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal P	(PTO-413) Paper No(s) atent Application (PTO-152)			

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#### **DETAILED ACTION**

#### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-3, 8-16, 21-24, 26-28 and 33-36 are rejected under 35 U.S.C. 103(a) as being unpatentable over Civanlar et al (5,691,768, cited by Applicant).

In regards to claims 1, 12 and 25, Civanlar teaches a system and method for combining multiple MPEG encoded video streams. In particular, Civanlar teaches receiving a plurality of video streams 403-1, 403-2, etc., noting that the streams MPEG encoded since the streams are MPEG decoder by decoder 402 (see fig 4). Further, Civanlar discloses incrementing the Macroblock Address Increments, herein after, MAI, by accessing, reading, and renumbering the MAI (see col 11 lines 3-15). It should be noted that Civanlar defines the MAI as "the macroblock's position in the video frame relative to the beginning of each slice" and further discloses modifying the value of the MAI (see col 9 lines 1-25). After the display code position is determined and modified, Civanlar discloses combining the each slice of the MPEG encode video streams into a single composite video stream as depicted by a single stream output from slice processor 405 (see fig 4, also see "single output bitstream" in col 3 lines 55-65). Civanlar further discloses that binary '0's are added to the end of the slice's bitstream,

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where needed, to compensate for renumbering the slice's MAI (see col 9 lines 15-25) and thus discloses the number of bits are modified. Civanlar further discloses an interactive decoder 402 (note interactive since decoder can interact bi-directionally with buffer 401) adapted to interleave each slice of each of the MPEG-encoded video streams as modified into a single composite video stream (see Abstract).

Civanlar fails to disclose the claimed an interactive decoder adapted to determine a display position code for a display position of each slice of received MPEG-encoded video streams and to modify the display position code of each slice of each of the received MPEG-encoded video streams as necessary, as this function is performed by the frame buffer 401 (see col 10 lines 1-67). It would have been obvious to one having ordinary skill in the art to modify Civanlar to include the claimed interactive decoder to perform the claimed functions to eliminate the need for a separate frame buffer thus reducing the number of separate components required.

Civanlar fails to disclose the claimed bits modulo 8. The Examiner Takes Official Notice it would have been well known that the last 8 bits of slice start code indicate the vertical position in the macroblock (see Hingorani et al – col 14 lines 10-18). It would have been obvious to one skilled in the art modifying Civanlar to include the claimed bits modulo 8 would have provided a codeword for sufficiently modifying the display position code for each slice.

Regarding claims 2, 15 and 27 Civanlar discloses the display position code is MAI (see col 4 lines 1-7 and col 5 lines 25-42).

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As to claims 3, 16 and 28 Civanlar discloses the claimed MPEG-1 and MPEG-2 encoded video streams (see col 2 lines 5-10).

Regarding claims 8, 21 and 33 Civanlar discloses the claimed interleaving each slice of each of the MPEG encoded video streams as modified into a single composite video stream is according to the display position code as modified of each slice of each MPEG-encoded video stream (see col 11 line 90 – col 12 line 24, Abstract).

Claims 9, 22 and 34 recite the same subject matter discussed above and are thus rejected for at least the same reasons provided above. Claims 9, 22 and 34 further recite the limitation "the number of stuffing codes ranging from 0 to 7".

As discussed above, Civanlar discloses adding stuffing codes. The Examiner takes Official Notice it would have been well known that the last 8 bits (modulo 8) of slice start code indicate the vertical position in the macroblock (see Hingorani et al – col 14 lines 10-18). It would have been obvious to one skilled in the art modifying Civanlar to include the claimed bits modulo 8 (with 8 bits) and the claimed stuffing codes ranging from 0 to 7 would have provided a codeword for sufficiently modifying the display position code for each slice while maintaining alignment (see col 9 lines 16-25).

Claims 10, 11, 12, 14, 23, 24, 26, 35 and 36 are met by that discussed above.

Regarding claim 13, Civanlar discloses a server which meets the claimed 'broadcast center limitation' (see col 2 lines 39-43).

### Allowable Subject Matter

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Claims 4-6, 17-19 and 29-31 are allowed.

#### Conclusion

## Any response to this action should be mailed to:

Commissioner of Patents and Trademarks Washington, D.C. 20231

or faxed to:

(703) 308-9051, (for formal communications intended for entry)

Or:

(703) 308- 5399 (for informal or draft communications, please label "PROPOSED" or "DRAFT")

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington. VA., Sixth Floor (Receptionist).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vivek Srivastava whose telephone number is (703) 305 - 4038. The examiner can normally be reached on Monday - Thursday from 8:00 am to 5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andy Faile, can be reached at (703) 305 - 4380.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the group receptionist whose telephone number is (703) 305 - 3900.

VS

12/18/03

VIVEK SRIVASTAVA
PRIMARY EXAMINER